

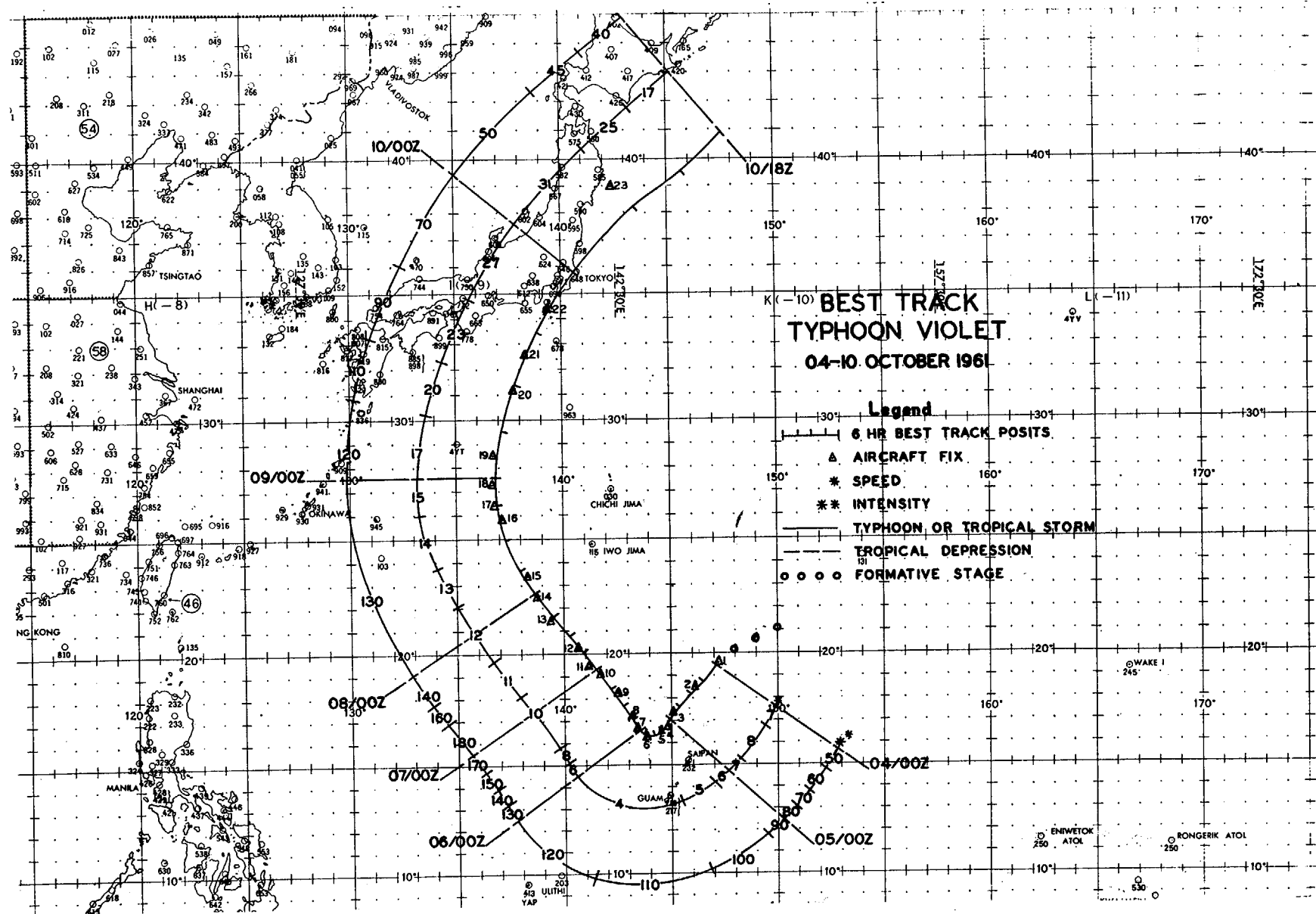
P. TYPHOON VIOLET (040000Z-101800Z OCTOBER 1961)

WHILE TYPHOON TILDA WAS MOVING TOWARD OKINAWA, A SMALL CIRCULATION BEGAN TO APPEAR SW OF MARCUS ISLAND, AND BY 021800Z IT WAS WELL ENOUGH DEFINED TO MERIT A REQUEST FOR AN INVESTIGATION. BASED ON A REPORTED SURFACE WIND OF 45 KTS, THE FIRST TROPICAL STORM VIOLET WARNING WAS ISSUED AT 040000Z.

AT THIS TIME A RIDGE WITH A N-S ORIENTATION WAS LOCATED W OF VIOLET, MIDWAY BETWEEN THE TWO TYPHOONS, VIOLET AND TILDA. AT FIRST VIOLET WAS UNABLE TO TRAVERSE THIS RIDGE WHICH EXTENDED FROM THE SURFACE THROUGH 500 MB. INSTEAD SHE MOVED TOWARD THE SW AND INTENSIFIED, REACHING TYPHOON STRENGTH AT APPROXIMATELY 041200Z. DURING HER INTENSIFICATION PROCESS VIOLET ALSO EXTENDED VERTICALLY, BECOMING DEFINITELY CLOSED AT THE 300 MB LEVEL AT 051200Z. AT THE SAME TIME, A SMALL OUTDRAFT APPEARED ON THE 200 MB MAP IMMEDIATELY SE OF VIOLET AND RESULTED IN THE FORMATION OF A NEUTRAL POINT AT THE SAME LEVEL DIRECTLY OVER THE TYPHOON'S CENTER. VIOLET THEN DECELERATED SLIGHTLY AND STARTED AN ABRUPT TURN TOWARD THE NW AS THE SUBTROPICAL RIDGE SHIFTED TO THE E. VIOLET CONTINUED TO INTENSIFY, REACHING HER MAXIMUM STRENGTH OF 180 KTS FROM 070000Z TO 071200Z. SHE THEN STARTED TO WEAKEN SLIGHTLY AND CONTINUED TO THE NNW, RECURVING THROUGH THE RIDGE LINE AT ABOUT 28N. SHE CONTINUED TO FOLLOW A SMOOTH PARABOLIC TRACK AND CROSSED THE BOSO PENINSULA 30 MI E OF TOKYO AT ABOUT 092200Z. SHE WAS MOVING AT A SPEED OF 27 KTS AT THIS TIME AND STILL HAD MAXIMUM SUSTAINED SURFACE WINDS OF 70 KTS. AFTER HER BRUSH WITH LAND, VIOLET RAPIDLY COMMENCED TO ASSUME EXTRATROPICAL CHARACTERISTICS. THE FINAL WARNING WAS ISSUED AT 101800Z WHEN SHE HAD WEAKENED TO 40 KTS.

VIOLET WAS UNUSUAL IN THAT SHE MOVED STEADILY TOWARD THE SW FOR AT LEAST ONE AND ONE HALF DAYS, BUT OTHER THAN THAT, SHE WAS QUITE NORMAL. SHE TRAVELED 2050 MI IN THE 6 DAYS AND 18 HOURS THAT WARNINGS WERE BEING ISSUED. HER MINIMUM SPEED WAS 4 KTS WHEN SHE MADE THE TURN FROM A HEADING OF SW TO THE NW AND HER MAXIMUM SPEED OF 31 KTS OCCURRED AFTER SHE PASSED TOKYO.

AS VIOLET APPROACHED GUAM FROM THE NE, LITTLE DAMAGE OCCURRED EXCEPT FOR SLIGHT CROP DAMAGE AND SOME NERVOUSNESS AMONG THE OCCUPANTS OF THE ISLAND. AFTER IT COMMENCED MOVING TO THE NW A MERCHANT VESSEL, THE PIONEER MUSE, WAS GROUND ON KITA DAITO SHIMA, ONLY A FEW MILES FROM THE SHEIK, AND BROKE IN TWO THE FOLLOWING DAY DUE TO HEAVY SEAS. THE CREW OF THE PIONEER MUSE WAS RESCUED BY THE AMPHIBIOUS ASSAULT SHIP PRINCETON VIA HELICOPTER. ONLY MINOR DAMAGE OCCURRED TO JAPAN IN THE TOKYO AREA, DUE TO GUSTY WINDS. TWO DEATHS WERE ATTRIBUTED TO THE TYPHOON IN JAPAN.



LAND RADAR AND AIRCRAFT FIXES. - TYPHOON VIOLET

FIX NO.	TIME	LAT.	LONG.	UNIT METHOD & ACCY	MAX SFC WND	MAX 700MB WND	MIN 700MB HGT	MIN SLP MBS	700MB T/Td (°C)	EYE CHARACTERISTICS
1	032130Z	19.5N	147.2E	VW1-P-10	45	---	----	997	-----	POORLY DEFINED
2	040845Z	18.6N	146.1E	VW1-P-10	45	---	----	---	-----	DEFINED BY SPIRAL BANDS
3	042100Z	17.3N	145.1E	56-P-01	85	70	9860	975	15/08	CIRC DIA 25MI WALL CLDS ALL QUADS
4	050200Z	16.9N	144.9E	56-P-03	110	70	9740	972	16/11	DIA 29MI
5	050700Z	16.7N	144.5E	56-P-03	110	62	9560	970	16/11	CIRC DIA 20 MI
6	051245Z	16.2N	143.9E	VW1-R-03	---	---	----	---	-----	DIA 15MI
7	060300Z	16.7N	143.4E	56-P-03	65	65	9000	946	15/10	CIRC 16MI DIA
8	060630Z	17.2N	143.2E	56-P-02	100	75	8670	946	17/12	DIA 5 MI
9	061330Z	18.2N	142.6E	VW1-R-05	---	---	----	---	-----	DIA 11 MI
10	062130Z	19.1N	141.8E	56-P-02	190	170	7340	898	25/19	WALL CLDS ALL QUADS
11	070200Z	19.6N	141.2E	56-P-02	190	160	7260	894	27/21	CIRC 5MI DIA WELL DEFINED
12	070700Z	20.2N	140.8E	56-P-02	190	160	7130	882	29/23	RADAR EYE DIA 10MI
13	071358Z	21.5N	139.4E	VW1-R-10	---	---	----	---	-----	CIRC DIA 9 MI
14	072200Z	22.5N	138.9E	56-P-05	125	115	7350	908	21/15	CIRC DIA 9 MI
15	080400Z	23.4N	138.3E	56-P-02	125	110	7580	916	17/15	WELL DEFINED CIRC DIA 12 MI
16	081330Z	25.9N	137.1E	VW1-R-05	---	---	----	---	-----	CIRC DIA 10 MI
17	081515Z	26.2N	136.9E	VW1-R-05	---	---	----	---	-----	CIRC DIA 8 MI
18	082145Z	27.2N	136.7E	56-P-03	125	115	8010	930	17/16	CIRC DIA 10 MI
19	090300Z	28.5N	136.8E	56-P-02	130	90	8250	940	19/15	CIRC DIA 10 MI OPEN S & W
20	091150Z	31.2N	137.9E	VW1-R-10	---	---	----	---	-----	INDEFINITE 28 MI DIA
21	091500Z	32.7N	138.3E	VW1-R-10	---	---	----	---	-----	CIRC 20 MI DIA

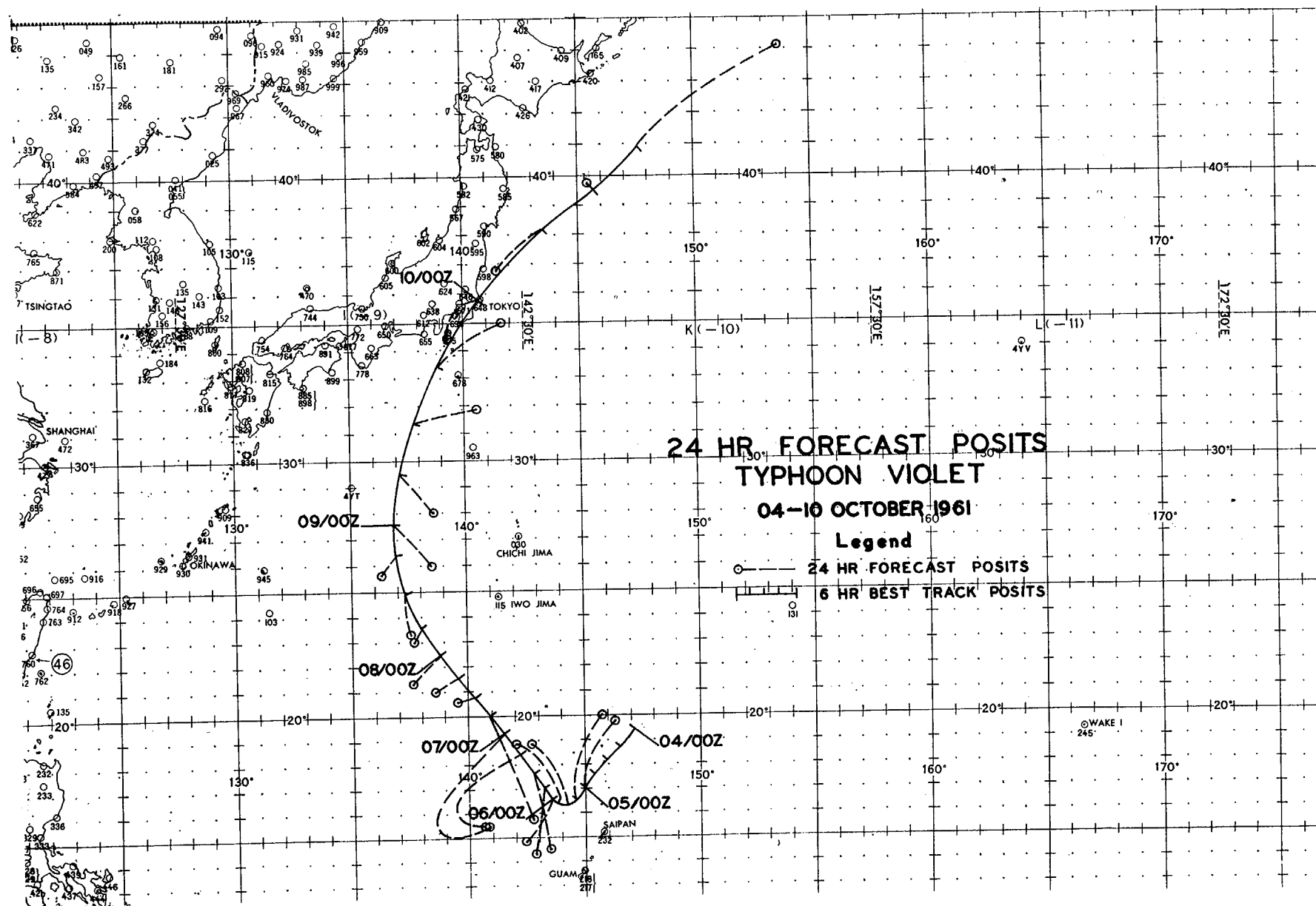
LAND RADAR AND AIRCRAFT FIXES - TYPHOON VIOLET (CONT'D)

FIX NO.	TIME	LAT.	LONG.	UNIT METHOD & ACCY	MAX SFC WND	MAX 700MB WND	MIN 700MB HGT	MIN SLP MBS	700MB T/T <sub>D</sub> (°C)	EYE CHARACTERISTICS
22	092130Z	34.3N	139.5E	56-P-01	80	40	9380	973	18/08	NO WALL CLDS
23	100700Z	39.0N	142.3E	56-P-02	100	80	9850	---	16/12	POORLY DEFINED

TYPHOON VIOLET 04-10 OCT 1961  
POSITION AND FORECAST VERIFICATION DATA

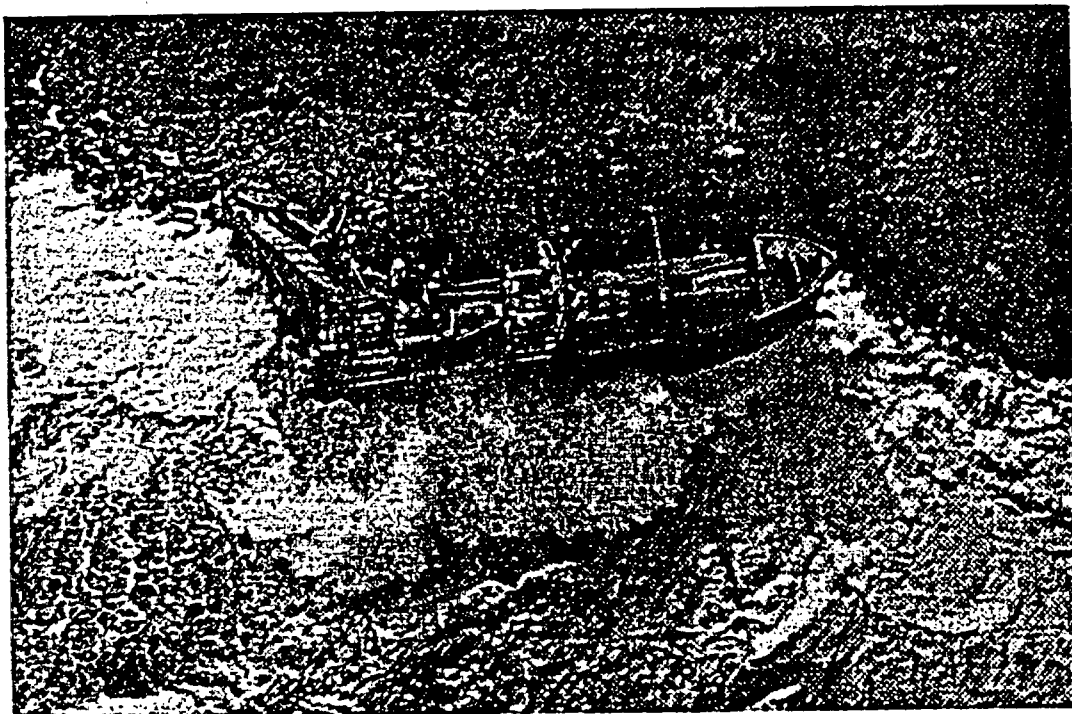
DTG	STORM POSITION		24 HR. ERROR	48 HR. ERROR
	LAT.	LONG.	DEG. DISTANCE	DEG. DISTANCE
040000Z	19.4N	147.0E	-----	-----
040600Z	18.8N	146.4E	-----	-----
041200Z	18.3N	145.8E	-----	-----
041800Z	17.6N	145.4E	-----	-----
050000Z	17.1N	144.9E	025-175	-----
050600Z	16.6N	144.7E	019-204	-----
051200Z	16.3N	144.1E	333-172	-----
051800Z	16.3N	143.7E	329-180	-----
060000Z	16.5N	143.5E	210-117	015-235
060600Z	17.1N	143.2E	187-170	359-210
061200Z	17.8N	142.8E	172-195	302-145
061800Z	18.6N	142.2E	207-207	294-186
070000Z	19.4N	141.4E	190-235	205-315
070600Z	20.1N	140.9E	157-275	185-365
071200Z	20.9N	140.1E	227-35	171-415
071800Z	21.8N	139.4E	218-65	198-375
080000Z	22.7N	138.7E	210-112	194-442
080600Z	23.8N	137.9E	197-55	171-510
081200Z	25.0N	137.4E	172-110	150-220
081800Z	26.4N	136.8E	223-55	205-290
090000Z	27.8N	136.7E	142-142	200-325
090600Z	29.6N	137.1E	136-120	190-180
091200Z	31.5N	137.8E	078-137	192-325
091800Z	33.6N	138.9E	057-160	194-255
100000Z	35.8N	140.8E	219-112	173-335
100600Z	38.2N	143.3E	049-120	169-340
101200Z	39.7N	145.8E	290-22	050-330
101800Z	41.0N	147.3E	057-335	060-435

AVERAGE 24 HOUR ERROR 146 MI  
AVERAGE 48 HOUR ERROR 312 MI





SHIPPING DAMAGE: THE PIONEER MUSE RAN AGROUND OF KITA DIATO SHIMA AS A RESULT OF TYPHOON VIOLET, OCTOBER, 1961. (RELEASED BY PACIFIC STARS AND STRIPES, 14 OCT 61)



SHEIK IS BROKEN IN TWO AFTER RUNNING AGROUND ON KITA DIATO SHIMA, OCTOBER 1961. (RELEASED BY PACIFIC STARS AND STRIPES, 14 OCT 61)